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RESEARCH DISCLOSURE, No. 186, October
1979, D.G. HOWE et al. "Document storage on a
video disc", pages 568-570

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Description

This invention relates to document information filing systems for successively recording image information of documents or the like in a storage device and retrieving and reading out given document information among various image information stored in the storage device when required.

Recently, document information filing systems have been developed and put to practical use. According to such document information filing system, each of a great deal of documents or the like is scanned by a scanner to produce document information which are progressively stored in a storage device. The desired document information among the various document information stored in the storage device is retrieved and read out for being reproduced into a visual state by an output device such as a cathode-ray-tube (CRT) display or a copying device.

In such document information filing systems, a plurality of magnetic tape cassettes suitably set in a video tape recorder are called respective files and given respective file names in correspondence to the kinds of classes of the document information stored. Of these files, those of the same kind or class or those related to one another are collectively called a file set. Such file sets are given respective file set names. In other words, the file set name is an upper class name with respect to the file name which is a subordinate class name.

While the number of file sets is increased with increasing document information, there should be no file sets of the same file name. Also, there should be no files of the same file name in one file set.

Further, while various pieces of document information stored in one file are given respective peculiar titles, there should be no different pieces of document information in one file that are given the same title.

Document "Research Disclosure", No. 186, October 1979, pages 568-570 describes a system in which a frame of video information representing a document is recorded as two fields of video information on adjacent circular tracks of a disc. Each "page" of the stored document is recorded on a pair of circular tracks, one field per track. Furthermore, an index is recorded near the center of the disc, and page numbers, and image track address information are recorded in the index band of the disc.

It is an object of the invention to provide a document information filing system, which can prevent from the assignment of an identical file set name to a plurality of file sets, the assignment of an identical file name to a plurality of files and the assignment of an identical title to a plurality of different pieces of image information in one file.

The present invention provides a document information filing system comprising: a scanner for scanning a document to produce a document information, and recording and reproducing

means for recording and reproducing document information and title information corresponding to the document information in and from a recording medium, said document information filing system being characterized by including: input means for providing title information relating to document information intended for recordation in said recording medium, a storage section for storing various management information for predetermined fields, and a decision section having a first means for comparing the title information reproduced by said recording and reproducing means with title information contained in the various management information in said storage section to obtain an auxiliary decision from coincidence therebetween, a second means for comparing the title information provided by said title information input means with title information contained in any of the various management information in said storage section to obtain a first decision from coincidence therebetween, and a third means for comparing the particular information of the title information reproduced by said recording and reproducing means with the particular information of the title information provided from said title information input means to obtain a second decision from coincidence therebetween, said deciding means including a fourth means for providing an instruction to inhibit the recording of document information in response to the absence of at least one of said auxiliary decision and said first decision and/or the pressure of said second decision.

Furthermore, the present invention provides also a document information filing system comprising: a scanner for scanning a document to produce document information, said document information filing system being characterized by including: input means for providing title information concerning a document information to be newly recorded in a recording medium, a storage section in which various management information for predetermined fields are stored, a main memory for storing information from said title information input means and said storage section, recording and reproducing means for recording and reproducing title information and title information of document information in and from said recording medium, a title memory for storing the title information reproduced by said recording and reproducing means; and

a decision section having a first means for comparing management information of the reproduced title information of said title memory with the various management information transferred to said main memory to obtain an auxiliary decision from coincidence therebetween, a second means for comparing management information of the title information provided by said title information input means and stored into said main memory with the various management information in said main memory to obtain a first decision from coincidence therebetween, and a third means for comparing the particular information of the title information stored in said title

memory with the particular information of the title information provided from said title information input means and stored into said main memory to obtain a second decision from coincidence therebetween, and a fourth means for inhibiting the recording of document information when at least one of said auxiliary decision and said first decision is not obtained and/or said second decision is obtained.

Thus, according to the invention, there is provided a document information filing system, which comprises a title memory for storing title information read out from a recording medium by a video recorder, a management information memory in which management information representing various file sets and various files are stored, and deciding means for executing an auxiliary decision as to if management information contained in the title information stored in the title memory corresponds to any management information in the management information memory, a first decision as to if the management information of keyed-in title information corresponds to any of various management information and a second decision as to if the title of the keyed-in title information coincides with any title of title information in the title memory, the deciding means acting to inhibit the recording of document information when at least one of the auxiliary decision and the first decision is unsatisfied and/or the second decision is satisfied.

This invention can be more fully understood from the following detailed description when taken in conjunction with the accompanying drawings, in which:

Fig. 1 is a perspective view showing an embodiment of the document information filing system according to the invention;

Fig. 2 is a block diagram showing the circuit construction of the document information filing system;

Fig. 3 is a view showing tracks of a magnetic tape;

Fig. 4 is a view showing the format of title information recorded on the tape shown in Fig. 3;

Fig. 5 is a view showing the format of index information in the title information shown in Fig. 4; and

Figs. 6A and 6B are a flow chart showing the operation of the document information filing system.

Fig. 1 shows a document information filing system. On top of a console 10 a longitudinal video recorders 11a and 11b, a document scanner 12 and a cathode-ray-tube (CRT) display 13 are provided. A keyboard 14 is provided on the front side of an upper portion of the console 10, and a copying device 15 is provided inside the console 10. The copying device 15 is constituted by a usual electro-photographic copying device. A floppy disc device 16 is provided inside the console 10 adjacent to one side thereof.

Fig. 2 shows a block diagram of the circuit of the document information filing system. The circuit comprises a control section 21, which includes a central processing unit (CPU) 22 and a title mem-

ory 23, a main memory 24 and the floppy disc device 16 connected to the CPU 22. The CPU 22 is also connected through an input/output (I/O) control bus 25 to a page buffer 26, a keyboard 14, the CRT display 13, the scanner 12, the copying device 15, the main longitudinal video recorder (LVR) 11a and the back-up LVR 11b. The title memory 23 and page buffer 26 are connected to an image bus 26. The image bus 26 is connected to the CRT display 13, scanner 12, copying device 15 and LVRs 11a and 11b. In the LVRs 11a and 11b, an endless tape cassette 27 is loaded. In the endless tape cassette 27 an endless magnetic tape 27a is accommodated. As shown in Fig. 3, the endless magnetic tape 27a has a width in which 200 recording tracks, namely tracks No. 0 to No. 199, are formed. Of these tracks, the tracks No. 100 and No. 101 are index information tracks, and the other tracks, that is, tracks No. 0 to No. 99 and No. 102 to No. 199, are image information recording tracks. The magnetic tape 27a is divided in the tape running direction into 256 sectors. In the index information tracks No. 100, title information is recorded according to a format as shown in Figs. 4 and 5. In the track No. 101 the same title information as that in the track No. 100 is recorded. In this case, the title information recorded in the track No. 100 and that recorded in the track No. 101 are shifted in position relative to each other in the direction of the tracks. As shown in Fig. 4, the title information contains a title set and file name code, a secret code, a title structure code, a title range code and an alias code, and index information. As shown in Fig. 5, the index information contains a title code, which consists of 20 digits divided into 6 items at the most, and an address code for 5 digits. The address code consists of a 1-digit image information length L (the number of sectors), a 2-digit image information recording track address (track No.) T.ADR, a 1-digit image information recording sector address S—ADR, and a 1-digit document size S.

The file as a unit corresponds to one magnetic tape cassette in this system. The file set is a group of files concerning the contents of the same kind. The file and file set code is represented by 14 or less alphanumeric letters, kana letters or special symbols. The secret code is provided for the confidential purpose, and it contains a filing confidential code to permit only the filter to effect processing of the file content such as storage, change and deletion, and a retrieving confidential code to permit only an operator with a permission to retrieve or a qualified person to effect retrieving. The file structure code expresses items of titles that can be set for a single piece of image information, for instance as the lectureship, course, field, record date, etc. when the image information concerns learning or study. The title range code represents the range of document information that can be recorded in a single file. The alias code shows an alias if such alias is contained in a particular title item. For example, in the course the mathematics, physics, social study, foreign language, etc. constitute alias.

Now, the operation of the document information

filing system according to the invention will be described with reference to the flow chart of Figs. 6A and 6B.

First, the operation will be described in connection with the registration of document information. In this case, the magnetic tape cassette 27 is loaded in the LVR 11a, and a document is placed on a document base 17. Then, a start is set in the keyboard 14, a select mode, i.e., "RETRIEVAL", "RECORD", "DELETE" and "CHANGE", is displayed on the CRT display 13. Subsequently, the "RECORD" mode is set by the keyboard 14, and the title information of the document to be registered, i.e., the management information containing the file set name, file name, secret code, title structure code, title range and alias and index information containing the title and document size corresponding to the document information, is keyed-in from the keyboard 14. The CPU 22 executes a record program and causes the keyed-in title information to be written in the main memory 24. When it is confirmed that the keying-in of the title information is ended, a confirmation key, i.e., "NL" key on the keyboard is depressed. As a result, the LVR is rendered operative to read out the title information from the index information recording track No. 100 or 101 of the magnetic tape 27a. The read-out title information is written in the title memory 23. In other words, the title information is transferred from the LVR 11a to the title memory 23. At the same time, various management information are transferred from the floppy disc device 16 to the main memory 24. The CPU 22 checks if the management information of the title information of the title memory 23, i.e., title information read out from the tape, corresponds to any of the various management information of the main memory 24, that is, it executes an auxiliary decision. This decision, however, is deemed ineffective since no title information is recorded on the tape. The CPU 22 also checks if the management information (file set name, file name) of the keyed-in title information stored in the main memory 24 corresponds to any of the various management information, that is, it executes a first decision. If this decision yields "NO", no image information storing operation is brought about, and the keying-in is requested again. If the first decision yields "YES", the scanner 12 is rendered operative to scan the document and provide document information corresponding to the document pattern. The document information from the scanner 12 is written in the page buffer 26. When document information for one page has been written in the page buffer, it is transferred to the LVR 11a and recorded thereby in an image recording track of the magnetic tape 27a. The CPU 22 detects the track number and sector number of the track where the document information is recorded and produces address of the document information recorded. The CPU 22 then produces the title information as shown in Fig. 4 from the address mentioned above, the index information and the management information stored in the

main memory 24, i.e., keyed-in management and index information. The title information thus produced is written in the title memory 23. When image information for one page has been recorded on the magnetic tape 27a, it is ready to record image information of the next document. In this case, the same operation as in case of newly recording document information on the magnetic tape 27a, on which some document information has already been recorded, takes place. This operation will now be described.

When the magnetic tape cassette 27 with some document information already recorded on tape is loaded in the LVR 11a and the title of a document is keyed-in from the keyboard 14, LVR 11a reads out title information from the index information track (track No. 100 or 101) of the magnetic tape 27a. The title information read out is all written in the title memory 23. The document title and size are written in the main memory 24. At this time, the management information of the floppy disc device 16 is transferred to and written in the main memory 24. The CPU 22 then executes the auxiliary decision as to if the management information of the title information of the title memory 23, i.e., the management information of the magnetic tape 27a corresponds to any of the management information of the floppy disc. If this auxiliary decision yields "NO", the operation is returned to the keying-in step as shown in Fig. 6A. The CPU 22 is also at this time going to execute the first decision, i.e., checking as to if the keyed-in management information corresponds to the management information of the floppy disc, but this first decision is deemed ineffective since no management information is keyed in. If the auxiliary decision yields "YES", the CPU 22 executes a second decision, that is, it checks if the keyed-in title stored in the file memory 23 coincides with the title of the various index information. If this decision yields "YES", the operation is returned to the keying-in step. This has an effect of preventing the registration of coincident titles in a file. If the second decision yields "NO", the recording of image information is allowed. In this case, the document is scanned by the scanner 12, and the document information corresponding to the document pattern is stored in the base buffer 26. When document information for one page has been written, it is transferred to the LVR 11a and recorded in any of the recording tracks No. 0 to 99 and 102 to 199 of the magnetic tape 27a. At this time, the recording is made subsequent to the track and sectors where document information is already recorded. When new document information is recorded, the CPU 22 determines the image information recording position on the basis of the numbers of the tracks and sectors where the new document information is to be recorded and produces address of the new document information. The CPU 22 produces index information as shown in Fig. 5 from this address together with document size and title. The index information thus produced is written in the title memory 24. At this time, the relevant

management information is also written in the title memory 24. In this way, several units of image information is recorded on the magnetic tape 27a. When the recording of image information is ended, the management information and index information stored in the title memory 24 is successively recorded in the index information recording track of the magnetic tape 27a. Thus, the title information in the index information recording track is renewed.

Now, the operation in case when retrieving and reading out desired image information among the document information stored on the magnetic tape 27a will be described. In this case, the "retrieval mode" is set by the keyboard 14. When this mode is set, the CPU 22 produces an instruction to cause the LVR 11a to read out title information from the index information recording track of the magnetic tape 27a. The title information from the LVR 11a is collectively transferred to and written in the title memory 23. It is also displayed on the display 31. The operator finds index information corresponding to the desired image information among the index information of the title information displayed on the display 13, and keys in the title of the intended index information from the keyboard 14. Index information corresponding to the keyed-in title is then retrieved. When the intended index information is detected, the corresponding image information is read out on the basis of the address of that index information. The read-out image information is stored in the page buffer 26. The image information stored in the page buffer 26 is displayed on the display 13. If desired, the document information is reproduced as a hard copy by the copying device 15.

As has been described in the foregoing, according to the invention the storage of document information is inhibited if newly keyed-in management information corresponds to none of the various management information preset for the document information filing system and also if the keyed-in title coincides with one of the titles of the various management information. Thus, it is possible to prevent the coincidence of a plurality of file set names, the coincidence of a plurality of file names and the coincidence of a plurality of title names in one file.

While in the embodiment use has been made of the magnetic tape as the recording medium, it is also possible to use optical discs or magnetic discs. In this case, an optical disc device or a magnetic disc device is used for the recording and reproduction of information.

Claims

1. A document information filing system comprising:
 - a scanner (12) for scanning a document to produce document information, and
 - recording and reproducing means (11a, 11b) for recording and reproducing document information and title information corresponding to the

document information in and from a recording medium;

characterized by including:

— input means (14) for providing title information relating to document information to be recorded on said recording medium;

— a storage section (16) for storing various management information for predetermined fields; and

— a decision section (22) having a first means for comparing the title information reproduced by said recording and reproducing means (11a, 11b) with title information contained in the various management information in said storage section (16) to obtain an auxiliary decision from coincidence therebetween, a second means for comparing the title information provided by said title information input means (14) with title information contained in any of the various management information in said storage section (16) to obtain a first decision from coincidence therebetween, and a third means for comparing the particular information of the title information reproduced by said recording and reproducing means (11a, 11b) with the particular information of the title information provided from said title information input means (14) to obtain a second decision from coincidence therebetween, said deciding means (22) including a fourth means for

providing an instruction to inhibit the recording of document information in response to the absence of at least one of said auxiliary decision and said first decision, and/or the presence of said second decision.

2. The document information filing system according to claim 1, characterized in that the title information reproduced by said recording and reproducing means (11a) is stored in a title memory (23), in that said document information is stored, one page after another in a page buffer (26), in that the title information provided by said title information providing means (14) and the various management information in said storage section (16) are transferred to and stored in a main memory (24), in that said title memory (23), main memory (24) and storage section (16) are connected to said decision section (22), and in that said decision section (22) effects the auxiliary decision, first decision and second decision according to information stored in said memories (23, 24) and storage section (16).

3. The document information filing system according to claim 1 or 2, characterized in that said storage section is a floppy disc device (16).

4. The document information filing system according to claim 1, characterized in that said recording and reproducing means is a video recorder (11a).

5. The document information filing system according to claim 1 or 2, characterized in that said document information and title information are displayed on a cathode-ray-tube display (13).

6. The document information filing system according to claim 1, 2 or 4, characterized in that said title information contains management infor-

mation representing a file set name, a file name, a secret code, a title structure, a title range and alias and index information representing a title and write/read address.

7. A document information filing system comprising:

— a scanner (12) for scanning a document to produce document information; characterized by including:

— input means (14) for providing title information concerning document information to be newly recorded in a recording medium;

— a storage section (16) in which various management information for predetermined fields are stored;

— a main memory (24) for storing information from said title information input means (14) and said storage section (16);

— recording and reproducing means (11a) for recording and reproducing title information and title information of document information in and from said recording medium;

— a title memory (23) for storing the title information reproduced by said recording and reproducing means (11a); and

— a decision section (22) having a first means for comparing management information of the reproduced title information of said title memory (23) with the various management information transferred to said main memory (24) to obtain an auxiliary decision from coincidence therewith, a second means for comparing management information of the title information provided by said title information input means (14) and stored into said main memory (24) with the various management information in said main memory (24) to obtain a first decision from coincidence therewith, a third means for comparing the particular information of the title information stored in said title memory (23) with the particular information of the title information provided from said title information input means (14) and stored into said main memory (24) to obtain a second decision from coincidence therewith, and a fourth means for inhibiting the recording of document information when at least one of said auxiliary decision and said first decision is not obtained and/or said second decision is obtained.

8. The document information filing system according to claim 7, characterized in that said title information and document information are displayed on a display (13).

9. The document information filing system according to claim 7, characterized in that said document information is rendered visible for unit information one after another on sheets by a copying device (15).

10. The document information filing system according to claim 7, characterized in that said recording reproducing means is a video recorder (11a).

11. The document information filing system according to claim 7, characterized in that said storage section is a floppy disc device (16).

Patentansprüche

1. Verarbeitungssystem für die Inhaltsangabe von Dokumenten (Dokumentinformations-Datei), umfassend

— einer Abtaster (12) zum Abtasten eines Dokuments (einer Vorlage) zwecks Erlangung von Dokumentinformationen und

— eine Aufzeichnungs- und Wiedergabeeinrichtung (11, 11b) zum Aufzeichnen und Wiedergeben von Dokumentinformationen und Titelinformation(en) entsprechend der Dokumentinformation auf einem bzw. von einem Aufzeichnungsträger,

gekennzeichnet durch

— eine Eingabeeinheit (14) zur Lieferung von Titelinformation(en), die auf die auf dem Aufzeichnungsträger aufzuzeichnenden Dokumentinformationen bezogen ist (sind),

— einen Speicherteil (16) zum Speichern verschiedener Übersichts- oder Managementinformationen für vorbestimmte Felder und

— einen Entscheidungsteil (22) mit einer ersten Einrichtung zum Vergleichen der mittels der Aufzeichnungs- und Wiedergabeeinrichtung (11a, 11b) wiedergegebenen Titelinformation mit der in den verschiedenen Managementinformationen im Speicherteil (16) enthaltenen Titelinformation zwecks Gewinnung einer Hilfsentscheidung aus einer Koinzidenz zwischen beiden, einer zweiten Einrichtung zum Vergleichen der durch die Titelinformation-Eingabeeinheit (14) gelieferten Titelinformation mit der in einer (jeder) der verschiedenen Managementinformationen in der Speichereinheit (16) enthaltenen Titelinformation zwecks Gewinnung einer ersten Entscheidung aus einer Koinzidenz zwischen beiden, sowie einer dritten Einrichtung zum Vergleichen der speziellen Information der durch die Aufzeichnungs- und Wiedergabeeinrichtung (11a, 11b) wiedergegebenen Titelinformation mit der speziellen Information der durch die Titelinformation-Eingabeeinheit (14) gelieferten Titelinformation zwecks Gewinnung einer zweiten Entscheidung aus einer Koinzidenz zwischen beiden, wobei die Entscheidungseinheit (22) eine vierte Einrichtung zur Lieferung einer Anweisung oder eines Befehls für das sperren der Aufzeichnung der Dokumentinformation in Abhängigkeit vom Fehlen mindestens einer der Hilfsentscheidung und der ersten Entscheidung und/oder vom Vorliegen der zweiten Entscheidung aufweist.

2. Verarbeitungssystem für Inhaltsangabe von Dokumenten nach Anspruch 1, dadurch gekennzeichnet, daß die durch die Aufzeichnungs- und Wiedergabeeinrichtung (11a) wiedergegebene Titelinformation in einem Titelspeicher (23) (ab)gespeichert wird, daß die Dokumentinformation seitenweise in einem Seitenzwischen-

speicher oder -puffer (26) (ab)gespeichert wird, daß die durch die Titelinformation-Eingabeeinheit (14) gelieferte Titelinformation und die verschiedenen Managementinformationen im Speicherteil (16) zu einem Hauptspeicher (24) übertragen und darin (ab)gespeichert werden,

daß der Titelspeicher (23), der Hauptspeicher (24) und der Speicherteil (16) mit dem Entscheidungs teil (22) verbunden sind und daß der Entscheidungsteil (22) die Hilfsentscheidung, die erste Entscheidung und die zweite Entscheidung nach Maßgabe der in den Speichern (23, 24) und im Speicherteil (16) gespeicherten Informationen bewirkt.

3. Verarbeitungssystem für Inhaltsangabe von Dokumenten nach Anspruch 1 oder 2, dadurch gekennzeichnet, daß der Speicherteil eine Floppyplattenvorrichtung (16) ist.

4. Verarbeitungssystem für Inhaltsangabe von Dokumenten nach Anspruch 1, dadurch gekennzeichnet, daß die Aufzeichnungs- und Wiedergabeeeinrichtung ein Videorecorder (11a) ist.

5. Verarbeitungssystem für Inhaltsangabe von Dokumenten nach Anspruch 1 oder 2, dadurch gekennzeichnet, daß die Dokumentinformation(en) und die Titelinformation auf einer (einem) Kathodenstrahlröhren-Anzeige oder -Bildschirm (13) wiedergebbar sind.

6. Verarbeitungssystem für Inhaltsangabe von Dokumenten nach Anspruch 1, 2 oder 4, dadurch gekennzeichnet, daß die Titelinformation Managementinformationen enthält, die einen Dateisatznamen, einen Dateinamen, einen Geheimcode, eine(n) Titelstruktur oder -aufbau, einen Titelbereich und anderes sowie einen Titel und (eine) Einschreib/Leseadresse darstellende Indexinformationen repräsentieren.

7. Verarbeitungssystem für Inhaltsangabe von Dokumenten, umfassend

— einen Abtaster (12) zum Abtasten eines Dokuments zwecks Gewinnung von Dokumentinformationen,

gekennzeichnet durch

— eine Eingabeeinheit (14) zur Lieferung von Titelinformation bezüglich neu auf einem Aufzeichnungsträger aufzuzeichnenden Dokumentinformationen,

— einen Speicherteil (16), in welchem verschiedene Managementinformationen für vorbestimmte Felder gespeichert sind,

— einen Hauptspeicher (24) zum Speichern von Informationen von der Titelinformation-Eingabeeinheit (14) und dem Speicherteil (16),

— eine Aufzeichnungs- und Wiedergabeeeinrichtung (11a) zum Aufzeichnen und Wiedergeben von Titelinformation und Titelinformation von Dokumentinformationen auf dem bzw. von dem Aufzeichnungsträger,

— einen Titelspeicher (23) zum Speichern der durch die Aufzeichnungs- und Wiedergabeeeinrichtung (11a) wiedergegebenen Titelinformation und

— einen Entscheidungsteil (22) mit einer ersten Einrichtung zum Vergleichen der Managementinformation der wiedergegebenen Titelinformation vom Titelspeicher (23) mit den verschiedenen, zum Hauptspeicher (24) übertragenen Managementinformationen zwecks Gewinnung (Erzielung) einer Hilfsentscheidung aus einer Koinzidenz zwischen beiden, einer zweiten Einrichtung zum Vergleichen der Manage-

mentinformationen der von der Titelinformation-Eingabeeinheit (14) gelieferten und im Hauptspeicher (24) abgespeicherten Titelinformation mit den verschiedenen Managementinformationen im Hauptspeicher (24) zwecks Gewinnung einer ersten Entscheidung aus einer Koinzidenz zwischen beiden, einer dritten Einrichtung zum Vergleichen der speziellen, Information der im Titelspeicher (23) gespeicherten Titelinformation mit der speziellen Information der von der Titelinformation-Eingabeeinheit (14) gelieferten und im Hauptspeicher (24) abgespeicherten Titelinformation zwecks Gewinnung einer zweiten Entscheidung aus einer Koinzidenz zwischen beiden, sowie einer vierten Einrichtung zum Sperren der Aufzeichnung der Dokumentinformationen, wenn zumindest eine der Hilfsentscheidung und der ersten Entscheidung nicht erreicht wird und/oder die zweite Entscheidung erzielt wird.

8. Verarbeitungssystem für Inhaltsangabe von Dokumenten nach Anspruch 7, dadurch gekennzeichnet, daß die Titelinformation und die Dokumentinformationen auf einer Anzeigeeinheit (13) wiedergegeben bzw. dargestellt werden.

9. Verarbeitungssystem für Inhaltsangabe von Dokumenten nach Anspruch 7, dadurch gekennzeichnet, daß die Dokumentinformation(en) für Einheitsinformationen jeweils nacheinander auf Blättern mittels eines Kopiergerätes (15) sichtbar dargeboten wird (werden).

10. Verarbeitungssystem für Inhaltsangabe von Dokumenten nach Anspruch 7, dadurch gekennzeichnet, daß die Aufzeichnungs- und Wiedergabeeeinrichtung ein Videorecorder (11a) ist.

11. Verarbeitungssystem für Inhaltsangabe von Dokumenten nach Anspruch 7, dadurch gekennzeichnet, daß der Speicherteil eine Floppyplattenvorrichtung (16) ist.

Revendications

1. Un système de classement d'informations de documents comportant:

— des moyens d'exploration (12) pour explorer un document de manière à produire des informations de document, et

— des moyens d'enregistrement et de reproduction (11a, 11b) pour enregistrer et reproduire les informations de document et les informations de titre correspondant aux informations de document sur et à partir d'un milieu d'enregistrement; caractérisé en ce qu'il comporte:

— des moyens d'entrée (14) pour fournir les informations de titre relatives aux informations de document à enregistrer sur ledit milieu d'enregistrement;

— une section de mémoire (16) pour mémoriser diverses informations de direction pour des domaines prédéterminés; et

— une section de décision (22) comprenant des premiers moyens pour comparer les informations de titre reproduites par lesdits moyens d'enregistrement et de reproduction (11a, 11b) avec les informations de titre contenues dans les

diverses informations de direction présentes dans la section de mémoire (16) pour obtenir une décision auxiliaire à partir d'une coïncidence entre celles-ci, des seconds moyens pour comparer les informations de titre fournies par lesdits moyens d'entrée (14) des informations de titre avec les informations de titre contenues dans l'une quelconque des diverses informations de direction présentes dans ladite section de mémoire (16) pour obtenir une première décision à partir de la coïncidence entre celles-ci, et des troisièmes moyens pour comparer les informations particulières des informations de titre reproduites par lesdits moyens d'enregistrement et de reproduction (11a, 11b) avec les informations particulières des informations de titre fournies par lesdits moyens d'entrée (14) des informations de titre pour obtenir une seconde décision à partir de la coïncidence entre celles-ci, lesdits moyens de décision (22) comportant des quatrièmes moyens pour délivrer une instruction d'inhiber l'enregistrement des informations de document en réponse à l'absence d'au moins l'une desdites décision auxiliaire et première décision, et/ou à la présence de ladite seconde décision.

2. Le système de classement d'informations de documents selon la revendication 1, caractérisé en ce que les informations de titre reproduites par lesdits moyens (11a) d'enregistrement et de reproduction sont mémorisées dans une mémoire de titre (23), en ce que lesdites informations de documents sont mémorisées une page après l'autre dans un tampon de pages (26), en ce que les informations de titre fournies par lesdits moyens (14) de fourniture des informations de titre et les diverses informations de direction présentes dans ladite section de mémoire (16) sont transférées dans une mémoire principale (24) et mémorisées dans celle-ci, en ce que lesdites mémoire de titre (23), mémoire principale (24) et section de mémoire (16) sont reliées à ladite section de décision (22), et en ce que ladite section de décision (22) effectue la décision auxiliaire, la première décision et la seconde décision selon les informations mémorisées dans lesdites mémoires (23, 24) et section de mémoire (16).

3. Le système de classement d'informations de documents selon la revendication 1 ou 2, caractérisé en ce que ladite section de mémoire est constituée par un dispositif (16) à disque souple.

4. Le système de classement d'informations de documents selon la revendication 1, caractérisé en ce que lesdits moyens d'enregistrement et de reproduction sont constitués par un enregistreur vidéo (11a).

5. Le système de classement d'informations de documents selon la revendication 1 ou 2, caractérisé en ce que lesdites informations de document et informations de titre sont affichées sur un afficheur (13) à tube à rayons cathodiques.

6. Le système de classement d'informations de documents selon la revendication 1, 2 ou 4, caractérisé en ce que lesdites informations de titre con-

tiennent des informations de direction représentant un nom d'ensemble de dossiers, un nom de dossier, un code secret, une structure de titre, une gamme de titres et autres, et des informations d'index représentant un titre et/ou une adresse d'écriture/lecture.

7. Un système de classement d'informations de documents comportant:

— des moyens d'exploration (12) pour explorer un document de manière à produire des informations de document;

caractérisé en ce qu'il comporte:

— des moyens d'entrée (14) pour fournir des informations de titre concernant les informations de documents à enregistrer nouvellement sur un milieu d'enregistrement;

— une section de mémoire (16) dans laquelle diverses informations de direction pour des domaines prédéterminés sont mémorisées;

— une mémoire principale (24) pour mémoriser des informations provenant desdits moyens (14) d'entrée des informations de titre et de ladite section de mémoire (16);

— des moyens (11a) d'enregistrement et de reproduction pour enregistrer et reproduire les informations de titre et les informations de titre des informations de document respectivement sur et à partir dudit milieu d'enregistrement;

— une mémoire de titre (23) pour mémoriser l'information de titre reproduite par lesdits moyens (11a) d'enregistrement et de reproduction; et

— une section de décision (22) comprenant des premiers moyens pour comparer les informations de direction des informations de titre reproduites contenues dans ladite mémoire de titre (23) avec les diverses informations de direction transférées à ladite mémoire principale (24) pour obtenir une décision auxiliaire à partir de la coïncidence entre celles-ci, des seconds moyens pour comparer les informations de direction des informations de titre fournies par lesdits moyens (14) d'entrée des informations de titre et mémorisées dans ladite mémoire principale avec les diverses informations de direction de ladite mémoire principale (24) pour obtenir une première décision à partir de la coïncidence entre celles-ci, des troisièmes moyens pour comparer les informations particulières des informations de titre mémorisées dans ladite mémoire de titre (23) avec les informations particulières des informations de titre fournies par lesdits moyens (14) d'entrée des informations de titre et mémorisées dans ladite mémoire principale (24) pour obtenir une seconde décision à partir de la coïncidence entre celles-ci, et des quatrièmes moyens pour inhiber l'enregistrement des informations de documents lorsqu'au moins l'une desdites décision auxiliaire et première décision n'est pas obtenue et/ou ladite seconde décision est obtenue.

8. Le système de classement d'informations de documents selon la revendication 7, caractérisé en ce que lesdites informations de titre et informations de document sont affichées sur un afficheur (13).

9. Le système de classement d'informations de documents selon la revendication 7, caractérisé en ce que lesdites informations de document sont rendues visibles pour des informations d'unité l'une après l'autre sur des feuilles par un dispositif de copiage (15).

10. Le système de classement d'informations de documents selon la revendication 7, carac-

térisé en ce que lesdits moyens d'enregistrement et de reproduction sont constitués par un enregistreur vidéo (11a).

5 11. Le système de classement d'informations de documents selon la revendication 7, caractérisé en ce que ladite section de mémoire est un dispositif (16) à disque souple.

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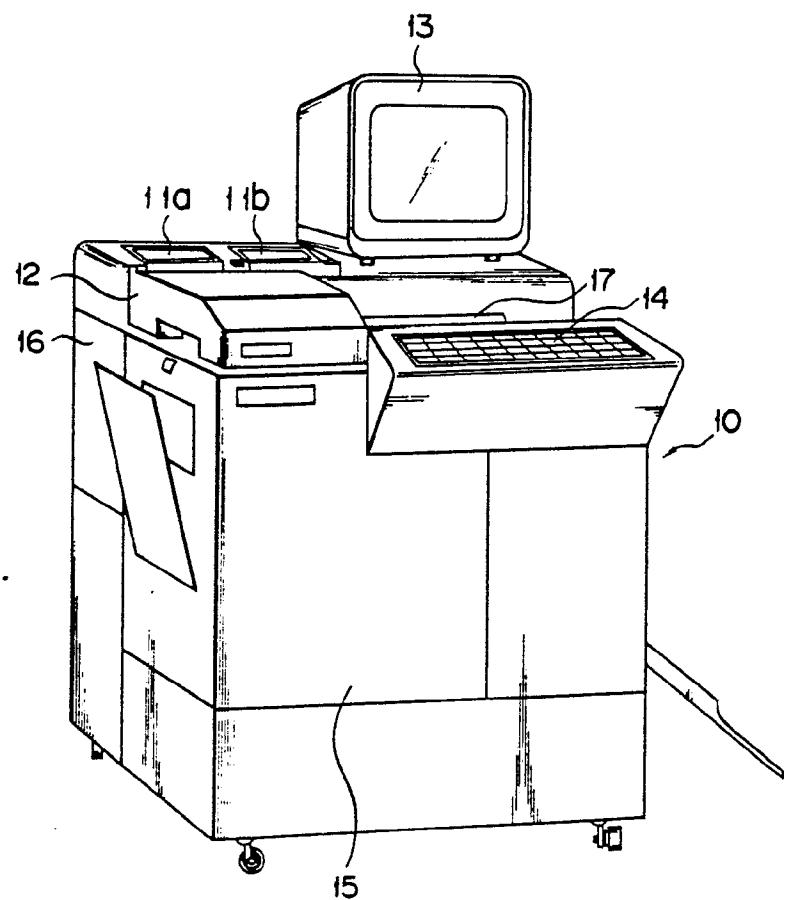
60

65

9

0 051 228

FIG. 1



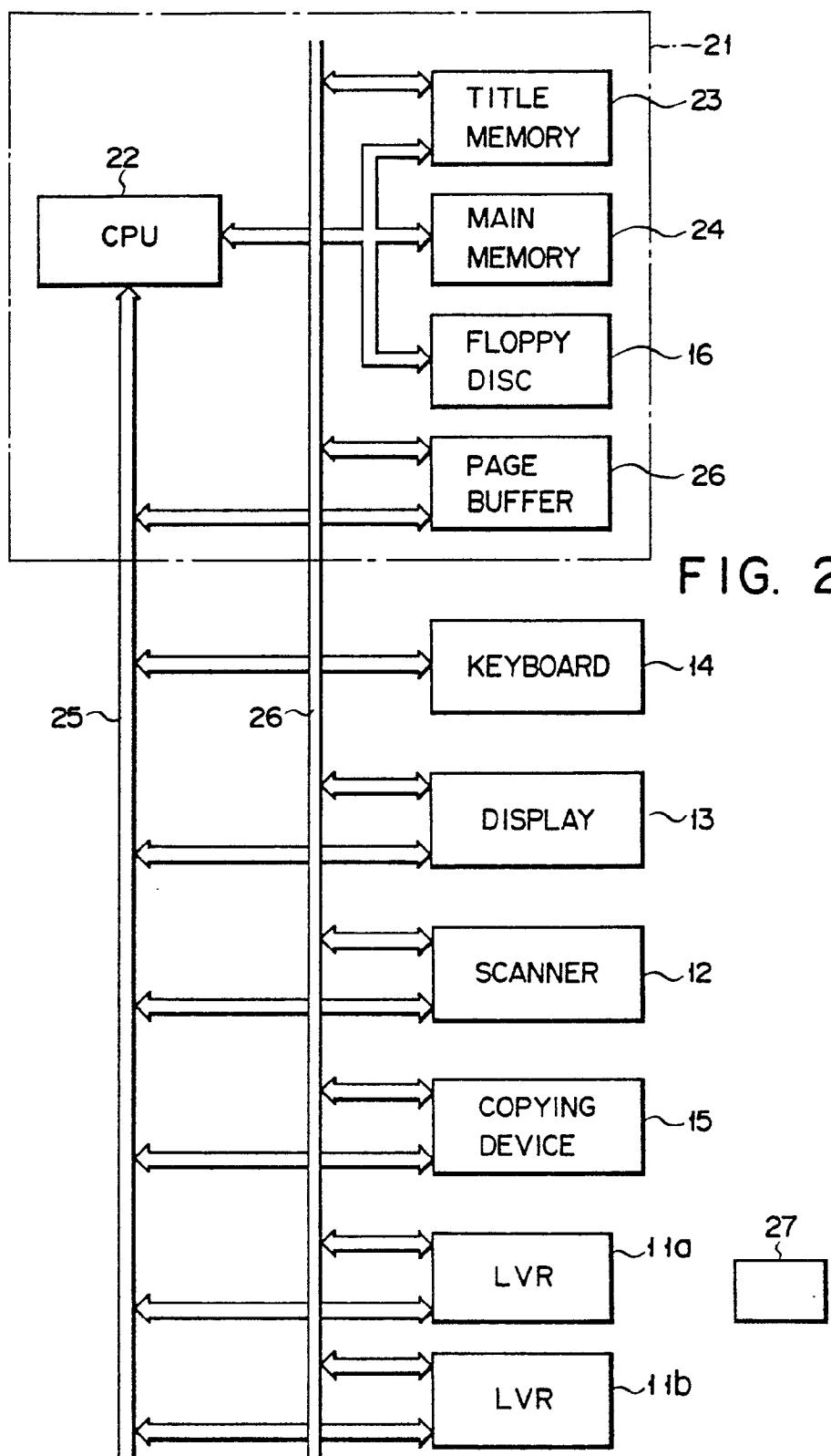


FIG. 2

FIG. 3

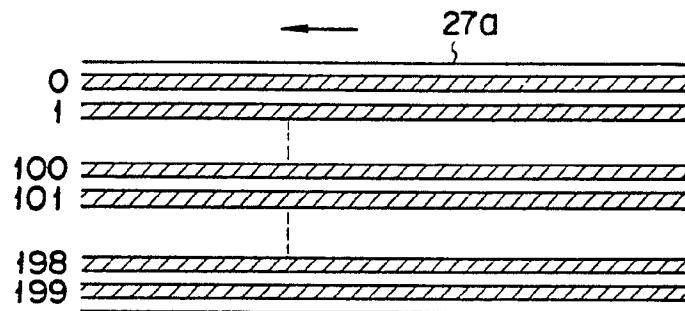


FIG. 4

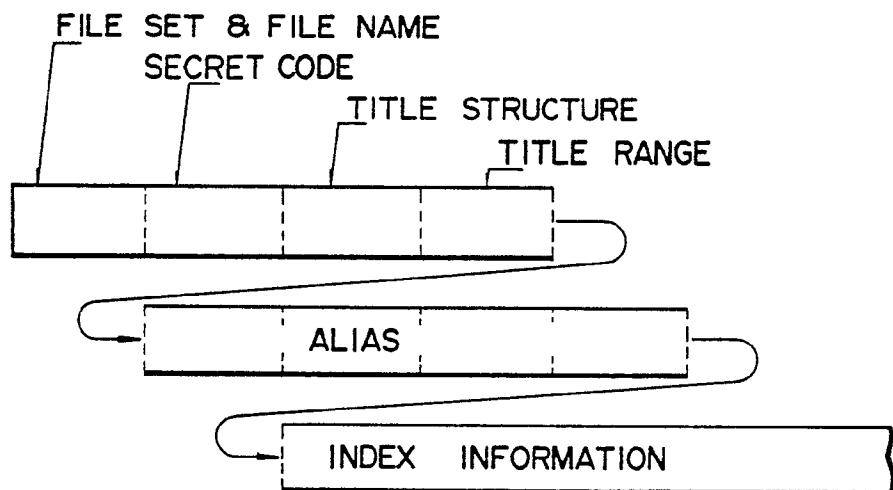


FIG. 5

TITLE	L	T-ADR	S-ADR	S
20	1	2	1	1
25				

FIG. 6A

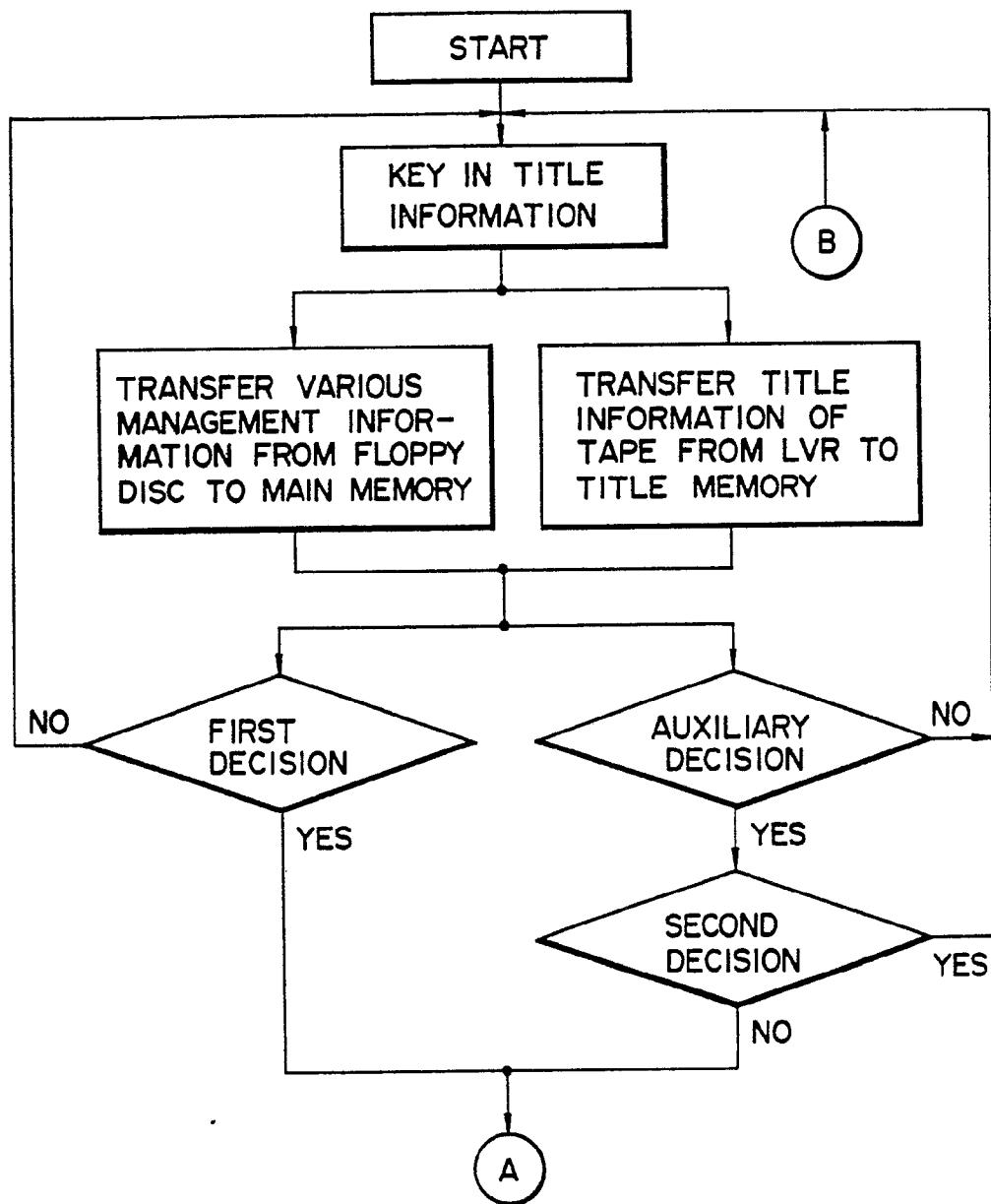


FIG. 6B

